

Video Cassette Recorder

Operating Instructions

Owner's record

The model number is located at the rear of the unit and the serial number on the top. Record these numbers in the spaces provided below. Refer to them whenever you call upon your Sony dealer regarding this product.

Model No. _____

Serial No. _____

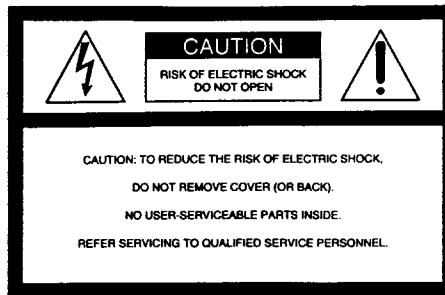


Hi-Fi

SLV-660HF
SLV-L6HF CS
SLV-L6HF MX
SLV-L6HF PA
SLV-L6HF PL

WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.



This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

CAUTION (SLV-660HF)

To prevent electric shock, do not use this polarized AC plug with an extension cord, receptacle or other outlet unless the blades can be fully inserted to prevent blade exposure.

Precautions

Safety

- For SLV-660HF/L6HF MX/L6HF PA, operate the unit only on 120 V AC, 60 Hz. For SLV-L6HF CS/L6HF PL, operate the unit on 110 to 240 V AC, 50/60 Hz.
- If anything falls into the cabinet, unplug the unit and have it checked by qualified personnel before operating it any further.
- (SLV-660HF) One blade of the plug is wider than the other for the purpose of safety and will fit into the power outlet only one way. If you are unable to insert the plug fully into the outlet, contact your Sony dealer.
- (SLV-660HF) Unplug the unit from the wall outlet if you do not intend to use it for an extended period of time. To disconnect the cord, pull it out by the plug, never by the cord.

Installing

- Allow adequate air circulation to prevent internal heat buildup.

- Do not place the unit on surfaces (rugs, blankets, etc.) or near materials (curtains, draperies) that may block the ventilation slots.
- Do not install the unit near heat sources such as radiators or air ducts, or in a place subject to direct sunlight, excessive dust, mechanical vibration or shock.
- Do not install the unit in an inclined position. It is designed to be operated in a horizontal position only.
- Keep the unit and cassettes away from equipment with strong magnets, such as microwave ovens or large loudspeakers.
- Do not place heavy objects on the unit.
- If the unit is brought directly from a cold to a warm location, moisture may condense inside the VCR and cause damage to the video head and tape. When you first install the unit, or when you move it from a cold to a warm location, wait for about one hour before operating the unit.

Information

For customers in the USA (SLV-660HF)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

Caution

Television programs, films, video tapes and other materials may be copyrighted. Unauthorized recording of such material may be contrary to the provisions of the copyright laws. Also, use of this recorder with cable television transmission may require authorization from the cable television transmission and/or program owner.

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Getting Started

Basic Operations

- 22 Playing a tape
- 24 Recording TV programs
- 27 Recording TV programs using the timer

Additional Operations

- 30 Playing/searching at various speeds
- 31 Recording TV programs using the quick timer
- 32 Checking/changing/cancelling timer settings
- 33 Recording stereo and bilingual programs
- 35 Adjusting the picture
- 36 Changing menu options
- 37 Editing with another VCR
- 38 Controlling other TVs with the remote commander (SLV-660HF only)

Additional Information

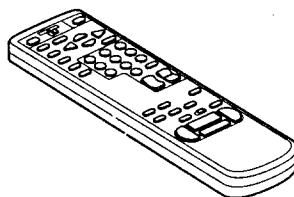
- 39 General setup information
- 41 Troubleshooting
- 43 Specifications
- 44 Index to parts and controls
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- back cover
- Quick reference to using the VCR

Step 1

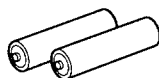
Unpacking

Check that you have received the following items with the VCR:

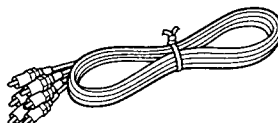
- Remote commander



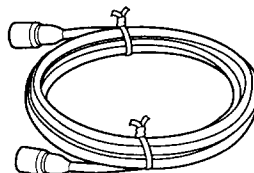
- Size AA (R6) batteries



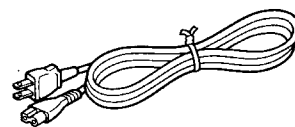
- Audio/video cable (3-phono to 3-phono)



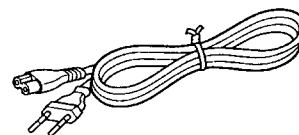
- 75-ohm coaxial cable with F-type connectors



- AC power cord

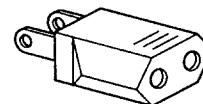


(SLV-660HF/L6HF MX/L6HF PA)



(SLV-L6HF CS/L6HF PL)

- Plug adaptor (SLV-L6HF CS/L6HF PL)



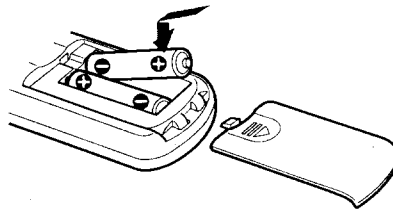
If the plug supplied with your VCR does not fit your power outlet, attach the supplied adaptor to the plug.

Step 2

Setting up the remote commander

Inserting the batteries

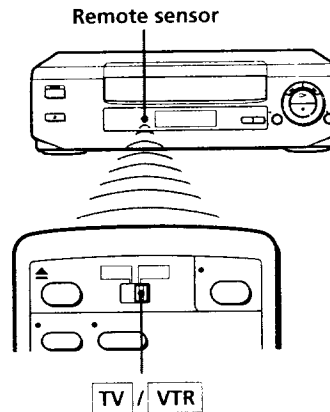
Insert two size AA (R6) batteries by matching the + and - on the batteries to the diagram inside the battery compartment.



Getting Started

Using the remote commander

You can use this remote commander to operate this VCR and a Sony TV. Buttons on the remote commander marked with a dot (•) can be used to operate your Sony TV.



To operate	Set TV / VTR to
the VCR	VTR and point at the remote sensor on the VCR
a Sony TV	TV and point at the remote sensor on the TV

Notes

- With normal use, the batteries should last about three to six months.
- If you do not use the remote commander for an extended period of time, remove the batteries to avoid possible damage from battery leakage.
- Do not use a new battery with an old one.
- Do not use different types of batteries.

Step 3

Hookups

Selecting the best hookup option

There are many ways in which your VCR can be hooked up. To hook up your VCR so that it works best for you, first scan through the table below. Then use the accompanying diagrams and procedures on the following pages to set up your VCR.

If you have	Use	Refer to
TV that has audio/video input	Audio/video (A/V) hookup , then follow one of the hookups below.	Page 7
Antenna only, no cable TV	Hookup 1	Pages 8 to 9
Cable box with many scrambled channels	Hookup 2	Pages 10 to 11
No cable box or cable box with only a few scrambled channels	Hookup 3	Pages 12 to 13
Cable box with only a few scrambled channels, using an A/B switch	Hookup 4	Pages 14 to 15

After you've completed the connections, follow the instructions for setup. During setup, if you need more details on the procedure described, page numbers are provided where you can find complete, step-by-step instructions.

After you've completed the setup, you're ready to use your VCR. Procedures differ depending on the hookup you used. For an overview, refer to "Quick reference to using the VCR" on the back cover.

Before you get started

- Turn off the power to all equipment.
- Do not connect the AC power cords until all of the connections are completed.
- Be sure you make connections firmly. Loose connections may cause picture distortion.
- If your TV doesn't match any of the examples provided, see your nearest Sony dealer or qualified technician.

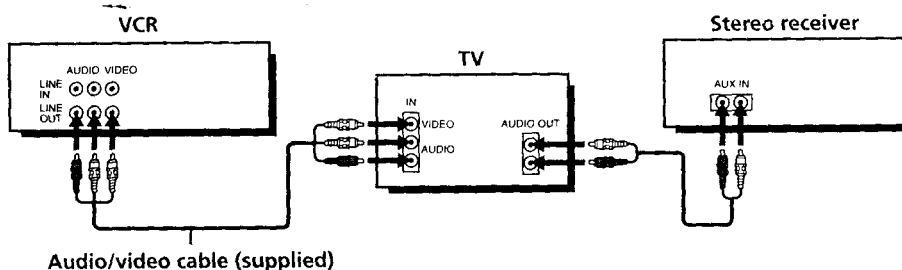
Caution

Connections between the VCR's VHF/UHF connector and the antenna terminals of the TV receiver should be made only as shown in the following instructions. Failure to do so may result in operation that violates the regulations of the Federal Communications Commission regarding the use and operation of RF devices. Never connect the output of the VCR to an antenna or make simultaneous (parallel) antenna and VCR connections at the antenna terminals of your receiver.

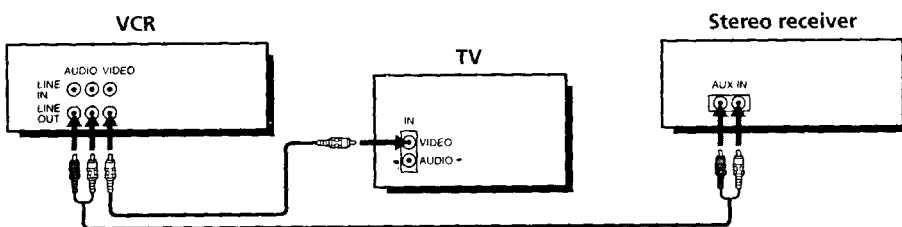
If your TV has audio/video (A/V) input jacks, you will get a better picture and sound if you hook up your VCR using these connections. In addition, for a true "home theater" experience, you should connect the audio outputs of your VCR or TV to your stereo system. If your TV doesn't have A/V inputs, see the following pages for antenna or cable hookups.

If you're not planning to use your VCR to record programs, you're finished setting up the VCR after you've made the connections shown on page 7. If you want to record off-air or off your cable TV system, complete these connections first, and then go to the following pages for antenna or cable hookups.

A Use this hookup if your TV has stereo jacks



B Use this hookup if your TV doesn't have stereo jacks



Note

To play a tape in stereo, you must use the A/V connection.

Note to CATV system installer

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

Hookup 1

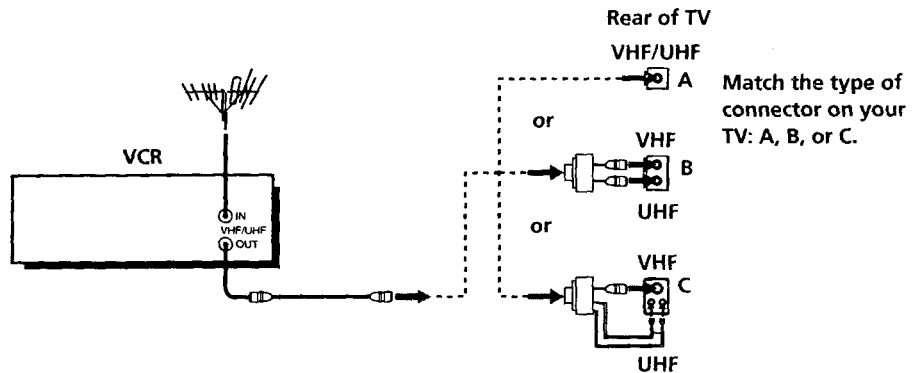
Pages 8 to 9

Antenna hookup

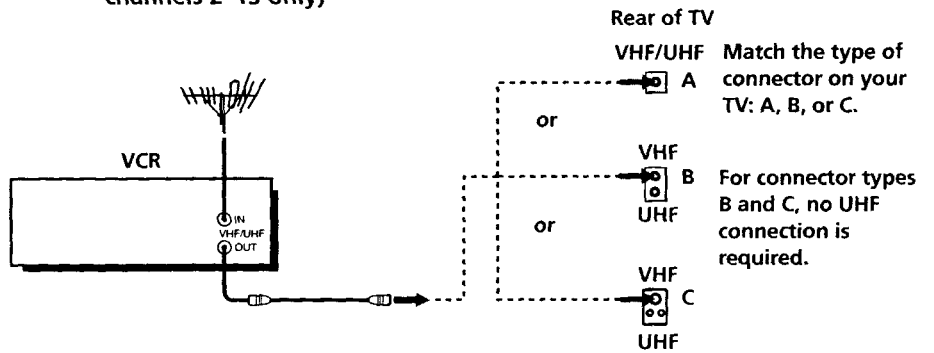
Make the following connections if you're using an antenna (if you don't have cable TV).

A Use this hookup if you're using:

- VHF/UHF antenna (you get channels 2–13 and channels 14 and higher)
- UHF-only antenna (you get channels 14 and higher)
- Separate VHF and UHF antennas



B Use this hookup if you're using a VHF-only antenna (you get channels 2–13 only)

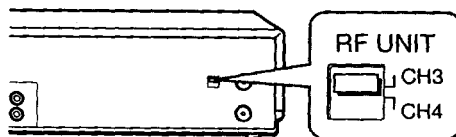


If you cannot connect your antenna cable to the VCR directly

If your antenna cable is a flat cable (300-ohm twin lead cable), attach an external antenna connector (not supplied) so you can connect the cable to the VHF/UHF IN connector. If you have separate cables for VHF and UHF antennas, you should use a U/V band mixer (not supplied). For details, see page 40.

Hookup 1: VCR setup

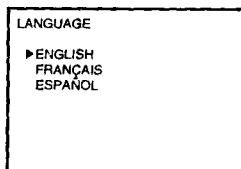
- 1 Set the RF UNIT switch to CH 3 or CH 4, whichever channel is not used in your area. If both are used, set the switch to either channel.



For details, see page 39. If you made A/V connections (page 7), you can skip this step.

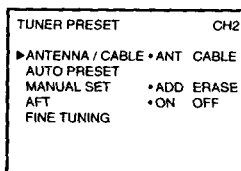
- 2 Change the on-screen display language if desired. For details, see page 17.

① Press MENU and select LANGUAGE.

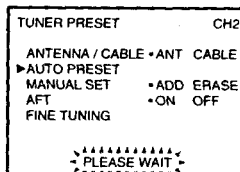


② Select the language, and press EXECUTE.

- 3 Press MENU and select TUNER PRESET. Set ANTENNA/CABLE to ANT. For details, see page 18.



- 4 Preset the channels into the VCR. Select AUTO PRESET and press EXECUTE.



Getting Started

Hookup 2

Pages 10 to 11

Cable box with many scrambled channels

Recommended use

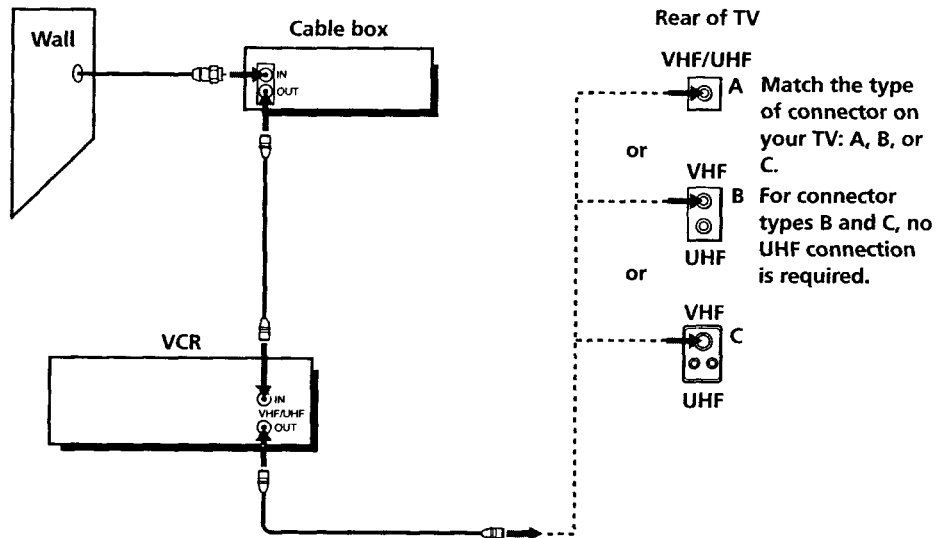
Use this hookup if your cable system scrambles all or most channels.

What you can do with this hookup

- Record any channel by selecting the channel on the cable box

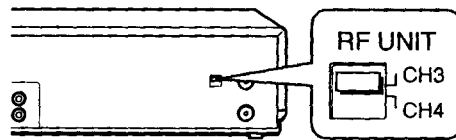
What you can't do

- Record one channel while watching another channel



Hookup 2: VCR setup

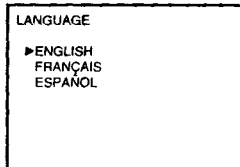
- 1 Set the RF UNIT switch to CH 3 or CH 4, whichever channel is not used in your area. If both are used, set the switch to either channel.



For details, see page 39. If you made A/V connections (page 7), you can skip this step.

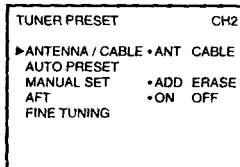
- 2 Turn on your cable box.
- 3 Change the on-screen display language if desired. For details, see page 17.

① Press MENU and select LANGUAGE.

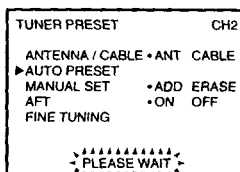


② Select the language, and press EXECUTE.

- 4 Press MENU and select TUNER PRESET. Set ANTENNA/CABLE to ANT. For details, see page 18.



- 5 Preset the channels into the VCR. Select AUTO PRESET and press EXECUTE.



Getting Started

Hookup 3

Pages 12 to 13

No cable box, or cable box with only a few scrambled channels

Recommended use

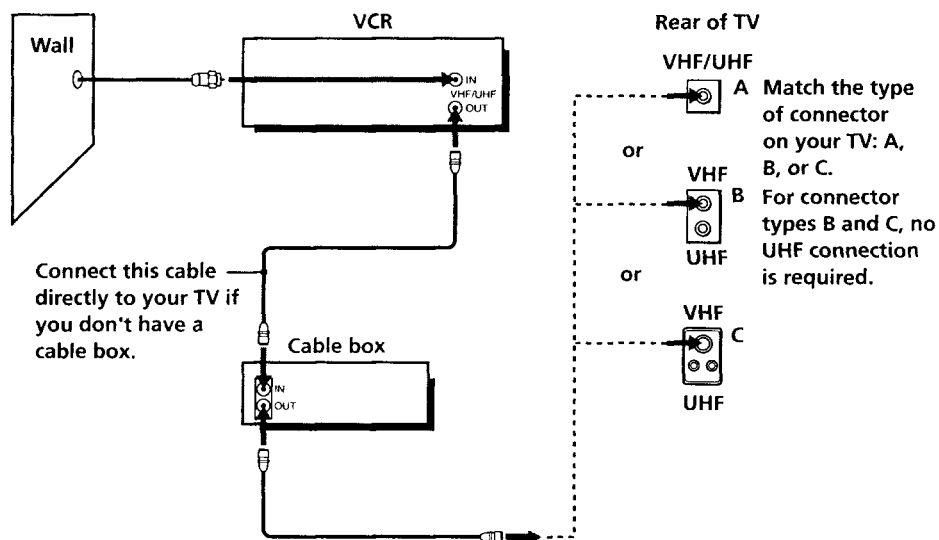
Use this hookup if you do not have a cable box. Also use this hookup if your cable system scrambles only a few channels.

What you can do with this hookup

- Record any unscrambled channel by selecting the channel on the VCR

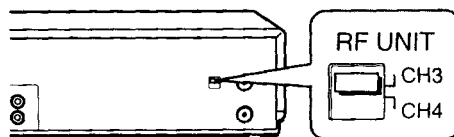
What you can't do

- Record scrambled channels that require a cable box



Hookup 3: VCR setup

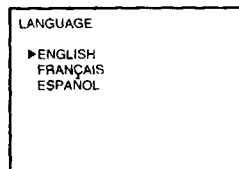
- 1 Set the RF UNIT switch to CH 3 or CH 4, whichever channel is not used in your area. If both are used, set the switch to either channel.



For details, see page 39. If you made A/V connections (page 7), you can skip this step.

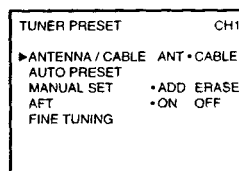
- 2 Turn on your cable box.
- 3 Change the on-screen display language if desired. For details, see page 17.

1 Press MENU and select LANGUAGE.

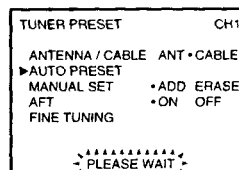


2 Select the language, and press EXECUTE.

- 4 Press MENU and select TUNER PRESET. Set ANTENNA/CABLE to CABLE. For details, see page 18.



- 5 Preset the channels into the VCR. Select AUTO PRESET and press EXECUTE.



Hookup 4

Pages 14 to 15

Cable box with only a few scrambled channels, using an A/B switch

Recommended use

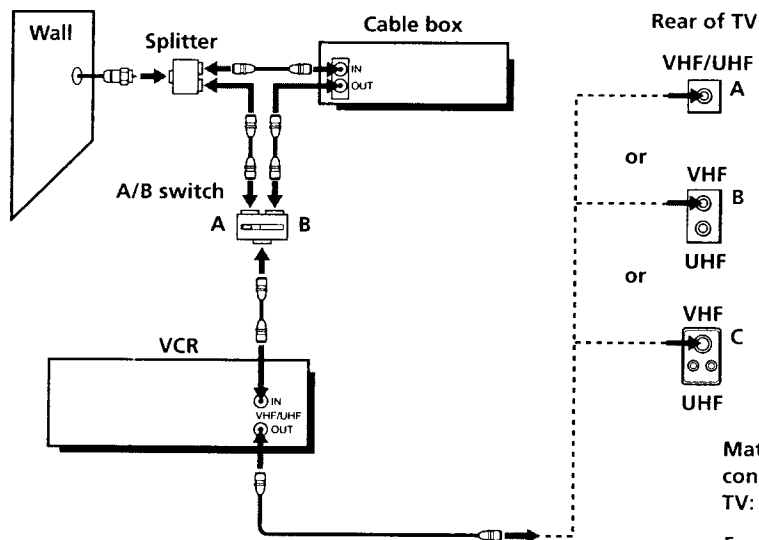
By using an A/B switch (not supplied), this hookup allows you to record both scrambled and unscrambled channels conveniently.

What you can do with this hookup

- Record any unscrambled channel by selecting the channel directly on the VCR (the A/B switch is set to A)
- Record any scrambled channel by selecting the channel on the cable box (the A/B switch is set to B)

What you can't do

- Record one scrambled channel while watching another channel (the A/B switch is set to B)

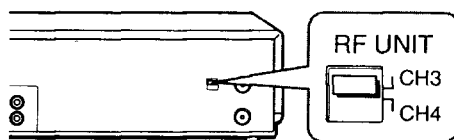


Match the type of connector on your TV: A, B, or C.

For connector types B and C, no UHF connection is required.

Hookup 4: VCR setup

- 1 Set the RF UNIT switch to CH 3 or CH 4, whichever channel is not used in your area. If both are used, set the switch to either channel.

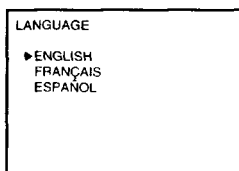


For details, see page 39. If you made A/V connections (page 7), you can skip this step.

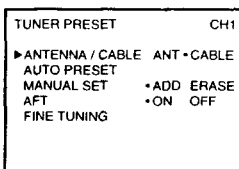
- 2 Set the A/B switch to "A."
- 3 Change the on-screen display language if desired. For details, see page 17.

- 1 Press MENU and select LANGUAGE.

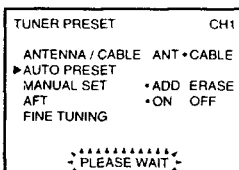
- 2 Select the language, and press EXECUTE.



- 4 Press MENU and select TUNER PRESET. Set ANTENNA/CABLE to CABLE. For details, see page 18.



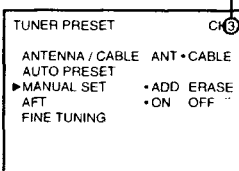
- 5 Preset the unscrambled channels into the VCR. Select AUTO PRESET and press EXECUTE.



- 6 Preset the cable box output channel (usually 2, 3 or 4). For details, see page 20.

Cable box output channel

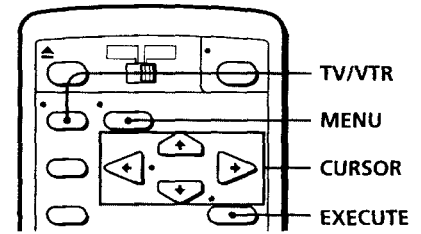
- 1 Press MENU and select TUNER PRESET.
- 2 Enter the cable box output channel.
- 3 Set MANUAL SET to ADD and press EXECUTE.



Step 4

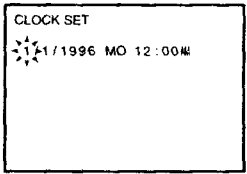
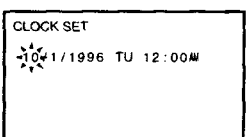
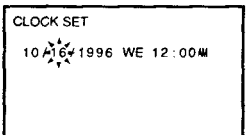
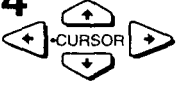
Setting the clock

Set the time and date to use the timer feature for recording programs.



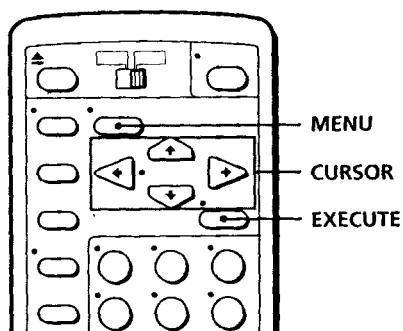
Before you start...

- Turn on the VCR and the TV.
- Set the TV to the VCR channel (channel 3 or 4). If your TV is connected to the VCR using A/V connections, set the TV to video input.
- Press TV/VTR to display the VTR indicator in the VCR's display window.

1   	Press MENU, then press CURSOR  to move the cursor (▶) to CLOCK SET and press EXECUTE.	
2 	Press CURSOR  to set the month.	
3 	Press CURSOR  to flash the day and press CURSOR  to set the day. The day of the week is set automatically.	
4 	Set the year, hour and minutes in the same way as the day.	
5 	Press EXECUTE to start the clock.	

Selecting a language

You can change the on-screen display language.



Getting Started

1

•MENU

Press MENU, then press CURSOR $\uparrow/\downarrow$ to move the cursor (►) to LANGUAGE and press EXECUTE.

•CURSOR

•EXECUTE

LANGUAGE

►ENGLISH

FRANÇAIS

ESPAÑOL

2

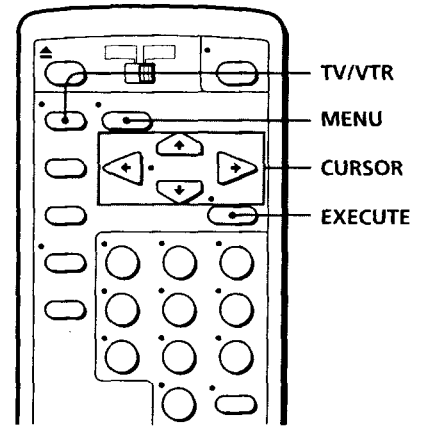
•CURSOR

Press CURSOR $\uparrow/\downarrow$ to select ENGLISH, FRANÇAIS, or ESPAÑOL, then press EXECUTE.

•EXECUTE

Presetting channels

This VCR is capable of receiving VHF channels 2 to 13, UHF channels 14 to 69 and unscrambled CATV channels 1 to 125. First, we recommend that you preset the receivable channels in your area using automatic presetting. Then, if there are any unwanted channels, disable them manually. If you have decided which channels you wish to preset, set them directly using manual presetting.



Before you start...

- Turn on the VCR and the TV.
- Set the TV to the VCR channel (channel 3 or 4). If your TV is connected to the VCR using A/V connections, set the TV to video input.
- Press TV/VTR to display the VTR indicator in the VCR's display window.

Presetting all receivable channels automatically

1

Press MENU, then press CURSOR $\uparrow/\downarrow$ to move the cursor ($\blacktriangleright$) to TUNER PRESET and press EXECUTE.

The diagram shows three buttons in sequence: a 'MENU' button, a 'CURSOR' button with up and down arrows, and an 'EXECUTE' button.

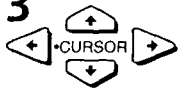
TUNER PRESET		CH2
ANTENNA / CABLE	• ANT	CABLE
AUTO PRESET		
▶ MANUAL SET	• ADD	ERASE
AFT	• ON	OFF
FINE TUNING		

2

Press CURSOR $\uparrow/\downarrow$ to select ANTENNA/CABLE.

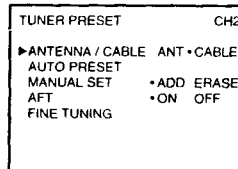
The diagram shows a 'CURSOR' button with up and down arrows.

3



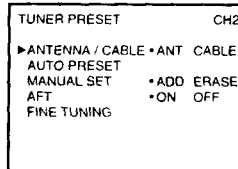
- To preset cable TV channels:

Press CURSOR $\leftarrow/\rightarrow$ to set ANTENNA / CABLE to CABLE.

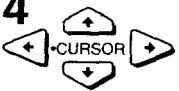


- To preset VHF and UHF channels:

Press CURSOR $\leftarrow/\rightarrow$ to set ANTENNA / CABLE to ANT.

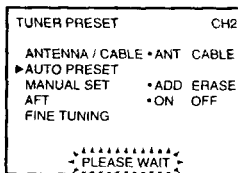


4



Press CURSOR $\uparrow/\downarrow$ to select AUTO PRESET, then press EXECUTE.

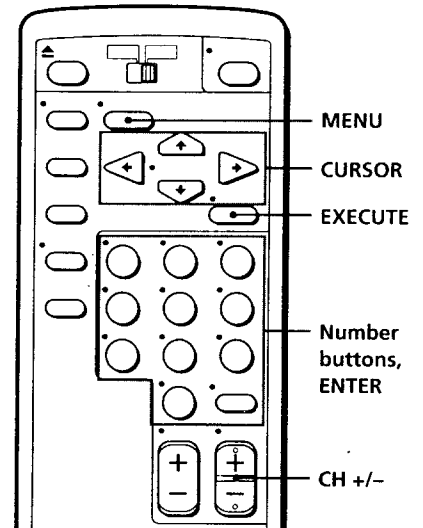
All receivable channels are preset in numerical sequence. When no more receivable channels can be found, presetting stops and the picture from the lowest numbered channel is displayed on the TV screen.



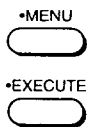
continued

Presetting channels (continued)

Presetting/disabling channels manually

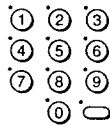


- 1** Press MENU and select TUNER PRESET, then press EXECUTE.



TUNER PRESET	CH2
ANTENNA / CABLE • ANT CABLE	
AUTO PRESET	
▶ MANUAL SET	• ADD ERASE
AFT	• ON OFF
FINE TUNING	

- 2**
- To preset a channel:
 - 1 Press the number buttons to enter the channel number, then press ENTER.
 - 2 Press CURSOR ◀/▶ to set MANUAL SET to ADD.



Channel to be preset

TUNER PRESET	CH2
ANTENNA / CABLE • ANT CABLE	
AUTO PRESET	
▶ MANUAL SET	• ADD ERASE
AFT	• ON OFF
FINE TUNING	



- To disable a channel:
 - 1 Press CH +/- to select the channel number.
 - 2 Press CURSOR ◀/▶ to set MANUAL SET to ERASE.

Channel to be disabled

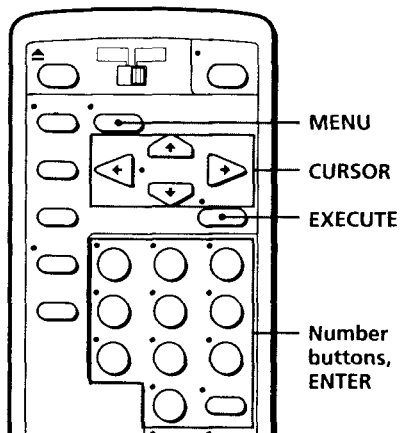
TUNER PRESET	CH2
ANTENNA / CABLE • ANT CABLE	
AUTO PRESET	
▶ MANUAL SET	ADD • ERASE
AFT	• ON OFF
FINE TUNING	

- 3** Repeat step 2 to preset or disable channels as required, then press EXECUTE.



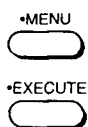
If the picture is not clear

Normally, the Auto Fine Tuning (AFT) function automatically tunes in channels clearly. If, however, the picture of a channel is not clear, you can also use the manual tuning function.



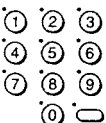
Getting Started

- 1** Press MENU and select TUNER PRESET, then press EXECUTE.



TUNER PRESET	CH2
ANTENNA / CABLE • ANT CABLE	
AUTO PRESET	
▶ MANUAL SET	• ADD ERASE
AFT	• ON OFF
FINE TUNING	

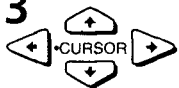
- 2** Press the number buttons to select the channel you want to fine-tune, then press ENTER.



Selected channel

TUNER PRESET	CH2
ANTENNA / CABLE • ANT CABLE	
AUTO PRESET	
▶ MANUAL SET	• ADD ERASE
AFT	• ON OFF
FINE TUNING	

- 3** Press CURSOR ↑/↓ to select FINE TUNING. The fine tuning meter appears.



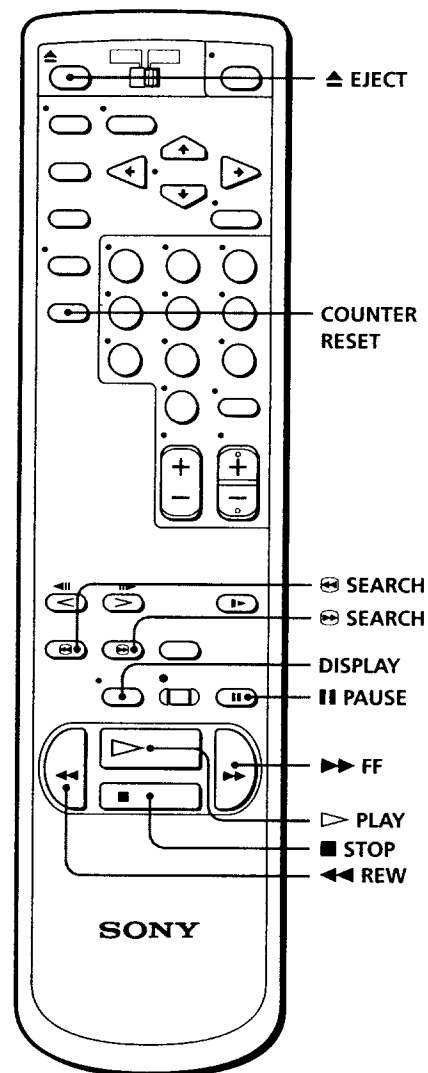
TUNER PRESET	CH5
ANTENNA / CABLE • ANT CABLE	
AUTO PRESET	
MANUAL SET	• ADD ERASE
AFT	• ON OFF
▶ FINE TUNING	
	--- ■ ---

- 4** Press CURSOR ←/→ to adjust to a clearer picture, then press EXECUTE. Note that the AFT setting switches to OFF.



TUNER PRESET	CH5
ANTENNA / CABLE • ANT CABLE	
AUTO PRESET	
MANUAL SET	• ADD ERASE
AFT	ON • OFF
▶ FINE TUNING	
	--- ■ ---

Playing a tape



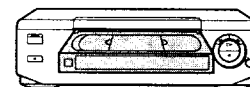
1

Turn on your TV and set it to the video channel.

2

Insert a tape.

The VCR turns on and starts playing automatically if you insert a tape with its safety tab removed.



3



Press ▷ PLAY.

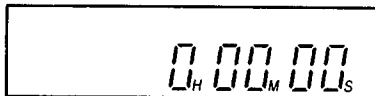
When the tape reaches the end, it will rewind automatically.

Additional tasks

To	Press
Stop play	■ STOP
Pause play	PAUSE
Resume play after pause	PAUSE or ▷ PLAY
Search forward	▶▶ FF or ⊞ SEARCH during playback
Search backward	◀◀ REW or ⊞ SEARCH during playback
Fast-forward the tape	▶▶ FF during stop
Rewind the tape	◀◀ REW during stop
Eject the tape	⬆ EJECT

To use the time counter

At the point on the tape that you want to find later, press COUNTER RESET. The counter in the display window resets to "0H00M00S." Search for the point afterwards by referring to the counter.

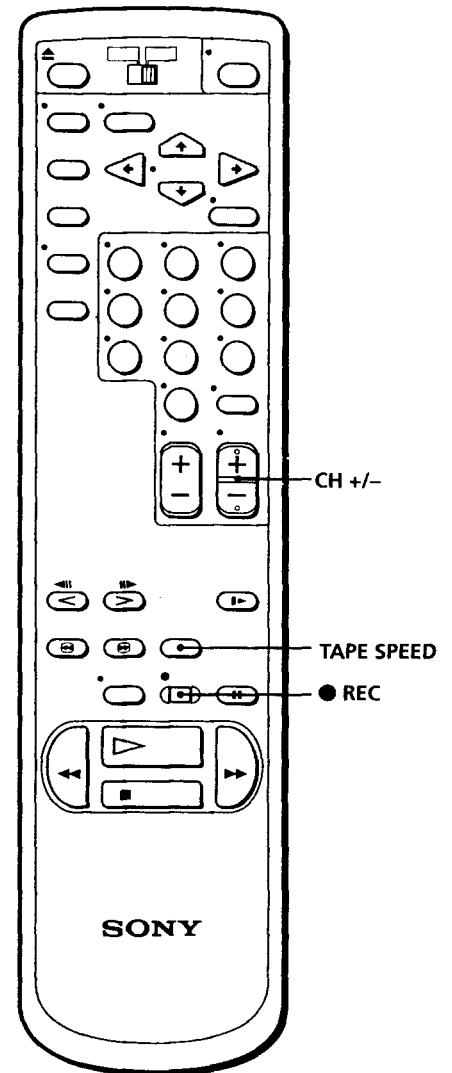


To display the counter on the TV screen, press DISPLAY.

Notes

- Tapes recorded in the LP mode on other VCRs can be played back on this VCR but the picture quality cannot be guaranteed.
- The counter resets to "0H00M00S" whenever a tape is reinserted.
- The counter stops counting when it comes to a portion with no recording.

Recording TV programs



- 1** Turn on your TV and set it to the video channel.
To record from a cable box, turn it on.
- 2** Insert a tape with its safety tab in place.

3



Press CH +/- to select the channel you want to record.

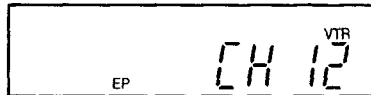


4



Press TAPE SPEED to select the tape speed, SP or EP.

EP provides recording time three times as long as SP, however, SP produces better picture and audio quality.



5



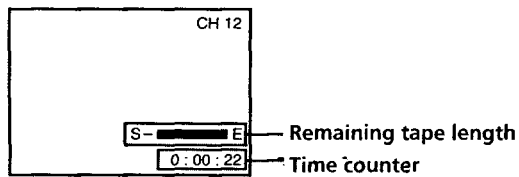
Press ● REC to start recording.

To stop recording

Press ■ STOP.

To check the remaining tape length

Press DISPLAY during playback or recording. The white bar indicates the approximate length of tape remaining.



To watch another TV program while recording

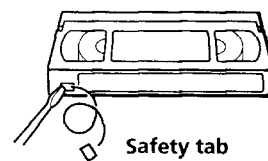
- 1 Press TV/VTR to turn off the VTR indicator in the display window.
- 2 If the TV is connected to the VCR's LINE OUT jacks, set the TV to TV input; if not, skip this step.
- 3 Select another channel on the TV.

continued

Recording TV programs (continued)

To save a recording

To prevent accidental erasure, break off the safety tab as illustrated. To record on a tape again, cover the tab hole with adhesive tape.



Tips

- To select a channel, you can use the number buttons on the remote commander. Enter the channel number, then press ENTER.
- You can select a video source from the LINE IN jacks using CH +/- . When you use CH +/-, "L" in the display window appears between the lowest program position and the highest one.
- The display appears on the TV screen indicating information about the tape, but the information won't be recorded on the tape.
- If you don't want to watch TV while recording, you can turn off the TV. When using a cable box, make sure to leave it on.

Notes

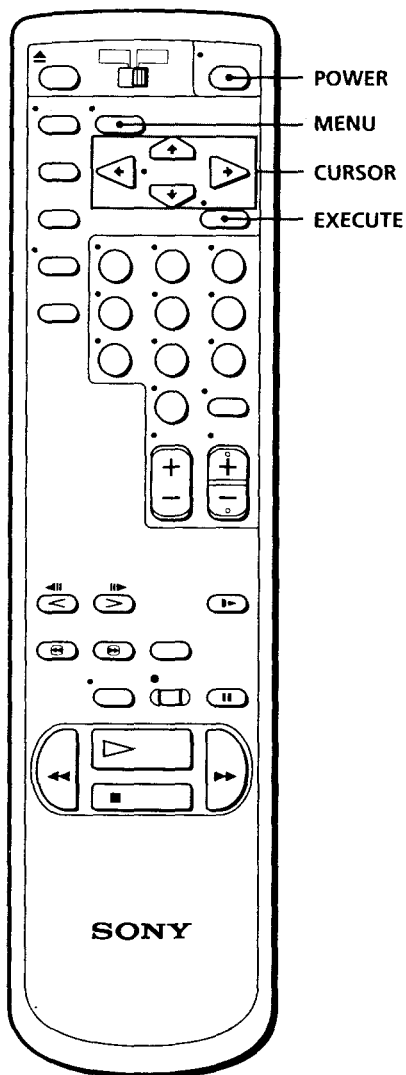
- The remaining tape length may not be indicated accurately for short tapes such as T-20 or T-30, or tapes recorded in the LP mode.
- The display does not appear during still (pause) mode, search mode or slow-motion playback.
- It may take up to one minute for the VCR to calculate and display the remaining tape length after you press DISPLAY.

Recording TV programs using the timer

You can preset up to eight programs at a time.

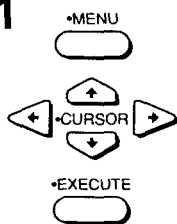
Before you start...

- Check that the VCR clock is set to the correct time.
- Turn on your TV and set it to the video channel. When using a cable box, turn it on.
- Insert a tape with its safety tab in place. Make sure the tape is longer than the total recording time.



Basic Operations

1



Press MENU and select TIMER SET / CHECK, then press EXECUTE.

TIMER SET / CHECK	10 / 16	WE
DATE	START	STOP
CH		
▶ / --	--	--
- / --	--	--
- / --	--	--
- / --	--	--
- / --	--	--
- / --	--	--
- / --	--	--
- / --	--	--

continued

Recording TV programs using the timer (continued)

2



Set the date, start and stop times, channel number and tape speed:

1 Press CURSOR → to flash each item in turn.

2 Press CURSOR ↑/↓ to set each item. To correct a setting, press CURSOR ← to return to that setting and reset.

To record the same program every day or the same day every week, press CURSOR ↓ while the date is flashing. For details, see "Daily/weekly recording" on page 29.

To record from a source connected to the LINE IN jacks, press CURSOR ↑/↓ to display "L" in the "CH" position.

TIMER SET / CHECK	10 / 16	WE
DATE	START	STOP
10 / 16 WE	---	---
---	---	---
---	---	---
---	---	---
---	---	---
---	---	---
---	---	---
---	---	---

3



Press CURSOR → to confirm the setting.

The cursor (▶) appears at the top of the line. To enter another setting, move the cursor to the next line and repeat step 2.

4



Press EXECUTE.

5



Press POWER to turn off the VCR.

The TIMER indicator on the VCR lights up and the VCR stands by for recording. When using a cable box, leave it on.

To stop recording

To stop the VCR while recording, press ■ STOP.

To use the VCR after setting the timer

To use the VCR before a timer recording begins, just press POWER. The TIMER indicator turns off and the VCR switches on. Remember to press POWER to reset the VCR after using the VCR.

You can also do the following tasks while the VCR is recording:

- Reset the counter.
- Display tape information on the TV screen.
- Check the timer settings.
- Watch another TV program.

Daily/weekly recording

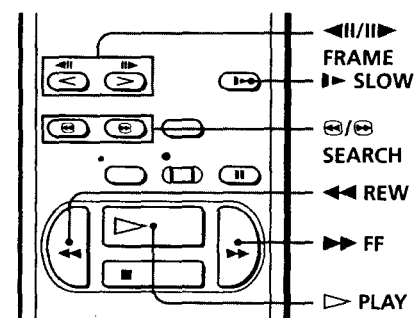
In step 2 above, press CURSOR ↓ to select the recording pattern. Each time you press CURSOR ↓, the indication changes as shown below.

the current date → SU-SA → MO-SA → MO-FR → EVERY SA → →
EVERY MO → EVERY SU → 1 month later → (cycles backward) → the
current date

Tips

- To set the channel, you can also use the CH+/- or number buttons.
- To set the tape speed, you can also use TAPE SPEED.

Playing/searching at various speeds



Playback options	Operation
Fast-forward/rewind	During stop, press ▶▶ FF or ◀◀ REW.
View the picture during fast-forward or rewind	During fast-forward, keep pressing ▶▶ FF. During rewind, keep pressing ◀◀ REW.
Play at high speed	During playback or pause, press ◀◀/▶▶ SEARCH or ◀◀/▶▶ SEARCH. To change direction, press ▶▶ FRAME or ◀◀ FRAME.
Play in slow motion	During playback or pause, press ▶▶ SLOW. To change direction, press ▶▶ FRAME or ◀◀ FRAME.
Play frame by frame	During pause, press ▶▶ FRAME or ◀◀ FRAME. Hold the button down to play one frame each second.
Play in reverse	During playback, press ◀◀ FRAME.
Rewind and start play	During stop, press ▶ PLAY on the VCR while pressing ◀◀ REW on the VCR.

To resume normal playback

Press ▶ PLAY.

Tip

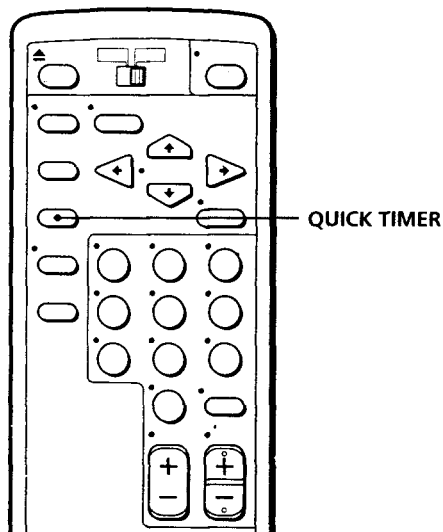
- Adjust the picture using the TRACKING ▼/▲ (STILL ADJUST) buttons on the VCR if:
 - Streaks appear while playing in slow motion.
 - The picture shakes while pausing.

Notes

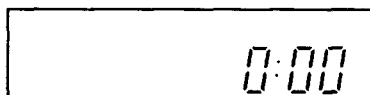
- The sound is muted during these operations.
- Tapes recorded in the LP mode on other VCRs can be played back on this VCR but the picture quality cannot be guaranteed.
- The picture may have snow:
 - when playing at high speed in reverse
 - when playing in reverse slow motion
 - when playing in reverse.

Recording TV programs using the quick timer

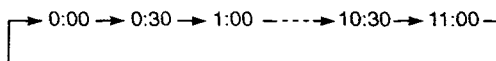
After starting recording in the normal way, you can have the VCR stop recording automatically after a specified duration.



- 1 While recording, press QUICK TIMER once.



- 2 Press QUICK TIMER repeatedly to set the duration.
Each press advances the time in increments of 30 minutes.



The duration decreases minute by minute to 0:00, then the VCR stops recording and turns off automatically.

To extend the duration

Press QUICK TIMER repeatedly to set to the new duration.

To stop the VCR while recording

Press ■ STOP.

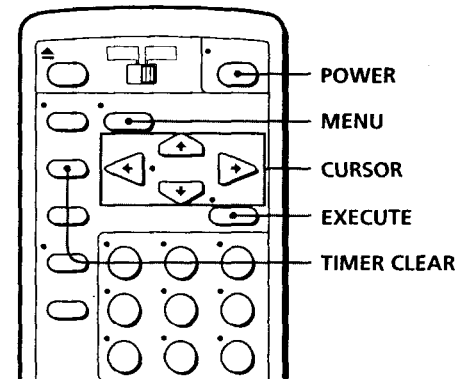
Tip

- You can also set the quick timer and start recording during stop mode.

Checking/ changing/ cancelling timer settings

Before you start...

- Turn on your TV and set it to the video channel.



- 1 Press POWER to turn on the VCR.
- 2 Press MENU and select TIMER SET/CHECK:
 - If you want to change a setting, go on to the next step.
 - If you do not need to change the settings, press EXECUTE, then turn off the VCR to return to recording standby.

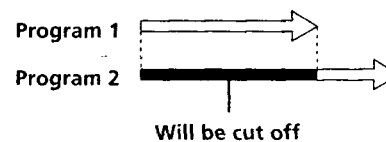
TIMER SET / CHECK					10/16 WE
DATE	START	STOP	CH		
▶ 10/17 TH	7:00AM	8:00AM	6SP		
10/25 FR	10:30PM	11:15PM	50EP		
MO - SA	1:00PM	3:00PM	LEP		
EVERYSU	11:55AM	1:30PM	42SP		
- / - -	- / - -	- / - -	- / - -		
- / - -	- / - -	- / - -	- / - -		
- / - -	- / - -	- / - -	- / - -		

- 3 Press CURSOR ↑/↓ to select the setting you want to change or cancel:
 - To change the setting, press CURSOR ←/→ to flash the item you want to change, and press CURSOR ↑/↓ to reset it. Then, press CURSOR → repeatedly until the cursor (▶) appears at the top of the line.
 - To cancel the setting, press TIMER CLEAR.
- 4 Press EXECUTE.

If any settings remain, turn off the VCR to return to recording standby.

When the timer settings overlap

The program that starts first has priority and the second program starts recording only after the first program has finished. If the programs start at the same time, the program listed first in the menu has priority.



Recording stereo and bilingual programs

Recording stereo programs

This VCR automatically receives and records stereo programs. When a stereo program is received, the STEREO indicator lights up. If there is noise in the stereo program, set AUTO STEREO in the ADVANCED OPTIONS menu to OFF. The sound will be recorded in monaural (on both hi-fi and normal audio tracks) but with less noise. For details, see page 36.

Recording bilingual programs

Normally, this VCR records only the main sound on both hi-fi and normal audio tracks. To record SAP (Second Audio Program) sound on the normal audio track, set NORMAL AUDIO in the ADVANCED OPTIONS menu to SAP. For details, see page 36.

Selecting the sound while recording/playing

Press AUDIO MONITOR to select the desired sound. (The sound being recorded will not change.)

Stereo program

To listen to (when playback)	Indicator on the TV screen
Stereo	STEREO
Left channel	L
Right channel	R
Monaural sound on the normal audio track*	No indicator appears

* Usually the mixed sound of left and right channels

Bilingual program

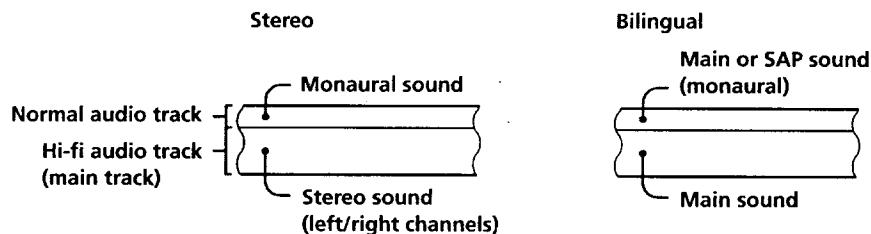
To listen to	Indicator in the display window
Main	No indicator appears
SAP (when recorded)	SAP

continued

Recording stereo and bilingual programs (continued)

How sound is recorded on a video tape

The VCR records sound onto two separate tracks. Hi-fi audio is recorded onto the main track along with the picture. Monaural sound is recorded onto the normal audio track along the edge of the tape.



Notes

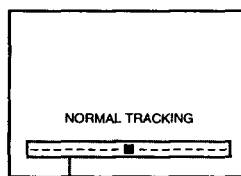
- To play a tape in stereo, you must use the A/V connections.
- When you play a tape recorded in monaural, the sound is heard in monaural regardless of the AUDIO MONITOR setting.
- Set NORMAL AUDIO to MAIN when not recording SAP sound, or no sound is recorded on the normal audio track. If no sound is recorded on the normal audio track and you play the tape on a mono VCR, you will see only video — no audio will be heard.

Adjusting the picture

Adjusting the tracking

Although the VCR automatically adjusts the tracking when playing a tape (the AUTO TRACKING indicator flashes in the display window, then lights steadily), distortion may occur if the tape was recorded in poor condition. In this case, manually adjust the tracking.

Press the TRACKING ▼/▲ (STILL ADJUST) buttons on the VCR to display the tracking meter. The distortion should disappear as you press one of the two buttons. To resume automatic tracking adjustment, eject the tape.



Tracking meter

About Adaptive Picture Control (APC)

Adaptive Picture Control (APC) automatically improves recording and playback quality by adjusting the VCR to the condition of the video heads and tape. To maintain better picture quality, we recommend that you set APC to ON in the ADVANCED OPTIONS menu (with the APC indicator in the display window lit).

APC playback

The APC function automatically works on all types of tapes, including rental tapes and tapes that were not recorded with APC.

APC recording

Whenever you insert a tape and first start recording, the VCR adjusts to the tape using the APC function (the APC indicator flashes rapidly). This adjustment is retained until the tape is ejected.

Note

- There is a delay of a few seconds before the VCR actually starts recording while the VCR analyzes the tape. To avoid the delay, first set the VCR to recording pause (the APC indicator flashes slowly) and press ● REC to have the VCR analyze the tape. After the APC indicator stops flashing, press ■ PAUSE to start recording immediately. If you press ■ PAUSE before the APC indicator stops flashing, the APC function is cancelled.

Changing menu options

- 1 Press MENU and select **ADVANCED OPTIONS**.

ADVANCED OPTIONS		
▶AUTO STEREO	•ON	OFF
NORMAL AUDIO	•MAIN	SAP
APC	•ON	OFF

- 2 Press CURSOR $\uparrow/\downarrow$ to select the option to change, then press CURSOR $\leftarrow/\rightarrow$ to change the setting.
- 3 Press EXECUTE to return to the original screen.

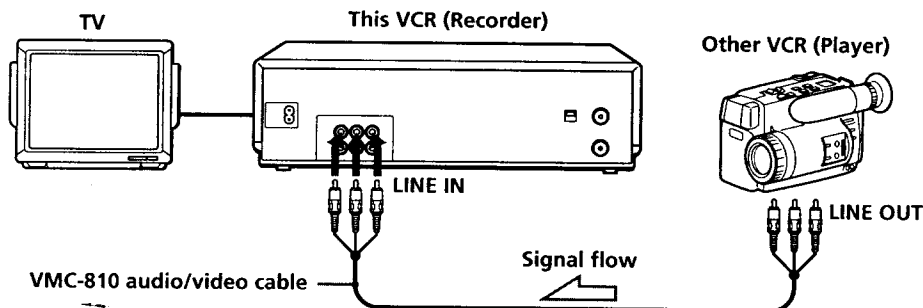
Menu choices

Initial settings are indicated in bold print.

Menu option	Set this option to
AUTO STEREO	ON to receive stereo programs, OFF to reduce noise. The sound changes to monaural.
NORMAL AUDIO	MAIN to record the main sound on both hi-fi and normal audio tracks. SAP to record the SAP (Second Audio Program) sound on the normal audio track. The main sound is recorded on the hi-fi audio track.
APC	ON to switch on the APC (Adaptive Picture Control) function and improve picture quality, OFF to switch off APC.

Editing with another VCR

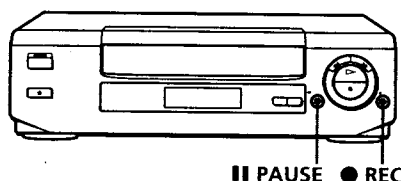
How to hook up to record on this VCR



Operation (when recording on this VCR)

Before you start editing

- Turn on your TV and set it to the video channel.
- Press CH +/- to display "L" in the display window.
- Press TAPE SPEED on the remote commander to select the tape speed, SP or EP.



- 1 Insert a source tape with its safety tab removed into the other (playback) VCR. Search for the point to start playback and set it to playback pause.
- 2 Insert a tape with its safety tab in place into this (recording) VCR. Search for the point to start recording and press || PAUSE.
- 3 Press ● REC on this VCR and set it to recording pause.
- 4 To start editing, press the || PAUSE buttons on both VCRs at the same time.

To stop editing

Press the ■ STOP buttons on both VCRs.

Notes

- Make sure you connect the plugs to jacks of the same color.
- If the other VCR is a monaural type, use a connecting cable, such as VMC-910MS.
- If you connected this VCR to both the LINE IN and LINE OUT jacks of the other VCR, select the input correctly to prevent a humming noise.
- If you start recording following the procedure above, the VCR won't start recording with the APC function. To record a tape with the APC function, press ● REC again during recording pause in step 3 so that the VCR analyzes the tape. Then when you start recording in step 4, press || PAUSE immediately after the APC indicator stops flashing. If you press || PAUSE before the APC indicator stops flashing, the APC function is canceled.

Controlling other TVs with the remote commander (SLV-660HF only)

The remote commander is preprogrammed to control non-Sony TVs. If your TV is listed in the table below, set the appropriate manufacturer's code number.

- 1 Set **[TV]/[VTR]** at the top of the remote commander to **[TV]**.
- 2 Hold down POWER, and enter your TV's code number(s) using the number buttons. Then release POWER.

Now you can use the POWER, VOL +/-, CH +/- and TV/VTR buttons to control your TV. You can also use the buttons marked with a dot (•) to control a Sony TV. To control the VCR, reset **[TV]/[VTR]** to **[VTR]**.

Code numbers of controllable TVs

If more than one code number is listed, try entering them one at a time until you find the one that works with your TV.

Manufacturer	Code number	Manufacturer	Code number	Manufacturer	Code number
Sony	01	JVC	09	RCA	04,10
Akai	04	KMC	03	Sampo	12
AOC	04	Magnavox	03,08,12	Sanyo	11
Centurion	12	Marantz	04,13	Scott	12
Coronado	03	MGA/Mitsubishi	04,12,13,17	Sears	07,10,11
Curis-Mathes	12	NEC	04,12	Sharp	03,05,18
Daytron	12	Panasonic	06,19	Sylvania	08,12
Emerson	03,04,14	Philco	03,04	Teknika	03,08,14
Fisher	11	Philips	08	Toshiba	07
General Electric	06,10	Pioneer	16	Wards	03,04,12
Gold Star	03,04,17	Portland	03	Yorx	12
Hitachi	02,03	Quasar	06,18	Zenith	15
J.C.Penny	04,12	Radio Shack	05,14		

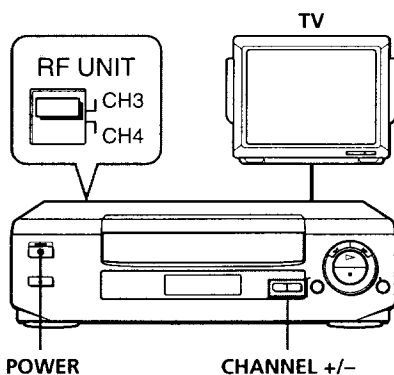
Notes

- If the TV uses a different remote control system from the one programmed to work with the VCR, you cannot control your TV with the remote commander.
- If you enter a new code number, the code number previously entered will be erased.
- When you replace the batteries of the remote commander, the code number automatically resets to 1 (Sony). Reset the appropriate code number.

General setup information

Setting the RF unit

When connecting the VCR to the TV using only the antenna cable, you must set the RF UNIT switch on the rear of the VCR so that the TV can receive the correct signal from the VCR.



- 1** Set the RF UNIT switch on the rear of the VCR to CH3 or CH4, whichever channel is not used in your area. If both are used, set the switch to either channel.
- 2** Press POWER to turn on the VCR.
- 3** Press TV/VTR on the remote commander to turn on the VTR indicator in the VCR's display window.
- 4** Press CHANNEL +/- to display a channel number in the display window. Select an active channel number in your area.
- 5** Turn on your TV and set it to the channel you selected in step 1 (channel 3 or 4).

The selected TV channel broadcast appears on the TV screen. If the channels change when you press CHANNEL +/-, you have made the correct setting.

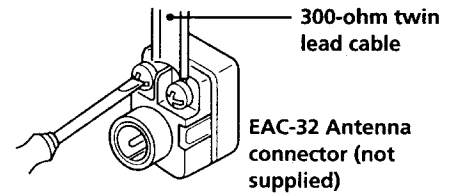
Whenever you use the VCR, set the TV to the channel selected in step 1.

continued

General setup information (continued)

Attaching the external antenna connector

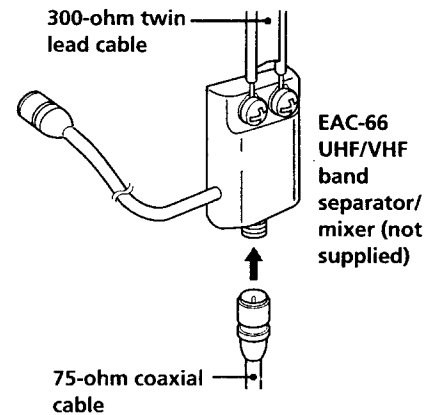
When using a 300-ohm twin lead cable for VHF/UHF antenna, use the EAC-32 antenna connector (not supplied) to connect the antenna to the VCR.



- 1 Loosen the screws on the antenna connector.
- 2 Wind the twin leads around the screws on the antenna connector.
- 3 Retighten the screws.

Attaching a UHF/VHF band mixer

When using both 75-ohm coaxial cable and 300-ohm twin lead cable for VHF/UHF antenna, use the EAC-66 UHF/VHF band separator/mixer (not supplied) to connect the antenna to the VCR.



- 1 Loosen the screws on the mixer.
- 2 Wind the twin leads around the screws on the mixer.
- 3 Retighten the screws.
- 4 Connect the 75-ohm coaxial cable to the mixer.

Troubleshooting

If you have any questions or problems not covered below, please consult your nearest Sony dealer.

	Symptom	Remedy
Power	The POWER switch does not function.	• Connect the AC power cord securely.
	The power is turned on but the VCR does not operate.	• Moisture condensation occurs. Turn the power off, unplug the AC power cord and leave the VCR to dry for over an hour.
Clock	The clock has stopped and "----" lights in the display window.	• The clock stops if the VCR is disconnected from the wall outlet for more than three hours (one hour for SLV-L6HF CS/L6HF MX/L6HF PA/L6HF PL). Reset the clock (and timer).
Playback	The playback picture does not appear on the TV screen.	• Make sure the TV is set to the channel for the VCR. If you are using a monitor, set it to video input.
	The picture is not clear.	• Adjust the tracking with the TRACKING ▼/▲ buttons. • The video heads are dirty (see below). Clean the video heads using the Sony T-25CL video head cleaning cassette. If this cleaning cassette is not available in your area, have the heads cleaned at your nearest Sony service facility (a standard service charge will be required). Do not use a commercially available wet-type cleaning cassette, as it may damage the video heads. • The video heads may have to be replaced. Consult your local Sony dealer for more information.
	The picture rolls vertically during picture search.	• Adjust the vertical hold control on the TV or monitor.
	The picture has no sound.	• The tape is defective. Use a new tape.

Symptoms caused by contaminated video heads

- Normal picture
- Rough picture
- Unclear picture
- No picture (or black & white screen appears)



initial → terminal

continued

Troubleshooting (continued)

	Symptom	Remedy
Recording	A TV program does not appear on the TV screen.	• Make sure the TV is set to the channel for the VCR. If you are using a monitor, set it to video input.
	TV reception is poor.	• Adjust the TV antenna.
	The tape starts playing as soon as it is inserted.	• The safety tab has been removed. To record on this tape, cover the tab hole.
	The tape ejects when you press ● REC.	• Check that the safety tab has not been removed.
	Nothing happens when you press ● REC.	• Make sure the tape is not at its end. • Select the correct source with the CH +/- buttons. Select a channel number when recording TV programs; select "L" when recording from other equipment.
Timer recording	No sound is recorded on the normal audio track.	• When not recording SAP sound, make sure the NORMAL AUDIO option in the ADVANCED OPTIONS menu is set to MAIN.
	The timer does not operate.	• Check that the clock is set. • Make sure a tape has been inserted. • Check that the safety tab has not been removed. • Make sure the tape is not at its end. • Make sure a program has been set for timer recording. • Make sure your timer settings have not already passed the current time. • Check that the cable box is turned on. • The clock stops if the VCR is disconnected from the wall outlet for more than three hours (one hour for SLV-L6HF CS/L6HF MX/L6HF PA/L6HF PL). Reset the clock and timer.
	A tape cannot be inserted.	• Check that a tape isn't already in the tape compartment.
	The remote commander does not function.	• Make sure you are pointing the remote commander at the remote sensor on the VCR. • Replace all the batteries in the remote commander with new ones if they are weak. • Make sure the [TV]/[VTR] remote control switch is set correctly.
	The tracking indicator does not appear on the screen.	• The recording condition of the tape is very poor and tracking cannot be adjusted.
Others	The VCR needs to be cleaned.	• Clean the cabinet, panel and controls with a dry, soft cloth, or a soft cloth slightly moistened with a mild detergent solution. Do not use any type of solvent, such as alcohol or benzene.

Specifications

System

Format
VHS NTSC standard

Video recording system
Rotary head helical scanning FM system

Video heads
Double azimuth four heads

Video signal
NTSC color, EIA standards

Tape speed
SP: 33.35 mm/s (1 ³/₈ inches/s)
EP: 11.11 mm/s (⁷/₁₆ inches/s)
LP: 16.67 mm/s (¹¹/₁₆ inches/s),
playback only

Maximum recording/playback time
8 hrs. in EP mode (with T-160 tape)

Fast-forward and rewind time
Approx. 3 min. (with T-120 tape)

Tuner section

Channel coverage
VHF 2 to 13
UHF 14 to 69
CATV A-8 to A-1, A to W, W+1 to W+84

Antenna
75-ohm antenna terminal for VHF/UHF

Inputs and outputs

LINE IN

VIDEO IN, phono jack (1)
Input signal: 1 Vp-p, 75 ohms, unbalanced,
sync negative
AUDIO IN, phono jack (2)
Input level: 327 mVrms
Input impedance: more than 47 kilohms

LINE OUT

VIDEO OUT, phono jack (1)
Output signal: 1 Vp-p, 75 ohms, unbalanced,
sync negative
AUDIO OUT, phono jack (2)
Standard output: 327 mVrms
Load impedance: 47 kilohms
Output impedance: less than 10 kilohms

Timer section

Clock
Quartz locked

Timer indication
12-hour cycle

Timer setting
8 programs per month (max.)

Power back-up
Built-in self-charging capacitor
Back-up duration: up to 3 hours at a time
(SLV-660HF), up to 1 hour at a time
(SLV-L6HF CS/L6HF MX/L6HF PA/L6HF PL)

General

Power requirements
120 V AC, 60 Hz (SLV-660HF/L6HF MX/
L6HF PA)
110 V AC to 240 V AC, 50/60 Hz
(SLV-L6HF CS/L6HF PL)

Power consumption
26 W (max.) (SLV-660HF)
20 W (max.) (SLV-L6HF CS/L6HF MX/
L6HF PA/L6HF PL)

Operating temperature
5°C to 40°C (41°F to 104°F)

Storage temperature
-20°C to 60°C (-4°F to 140°F)

Dimensions
Approx. 355 × 102 × 278 mm (w/h/d)
(Approx. 14 × 4 ¹/₈ × 11 inches) including
projecting parts and controls

Mass
Approx. 4.0 kg (8 lb 13 oz)

Supplied accessories

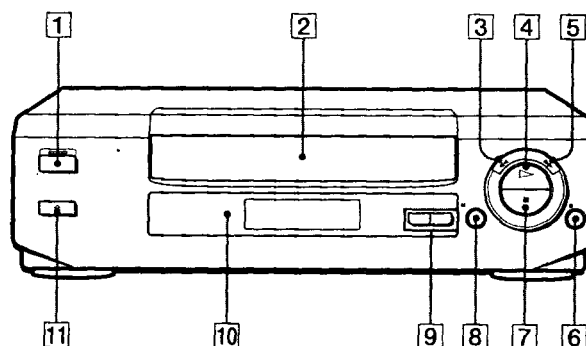
Remote commander (1)
Size AA (R6) batteries (2)
75-ohm coaxial cable with F-type connectors (1)
AC power cord (1)
Audio/video cable (3 phono to 3 phono) (1)
Plug adaptor (1) (SLV-L6HF CS/L6HF PL)

Design and specifications are subject to change
without notice.

Index to parts and controls

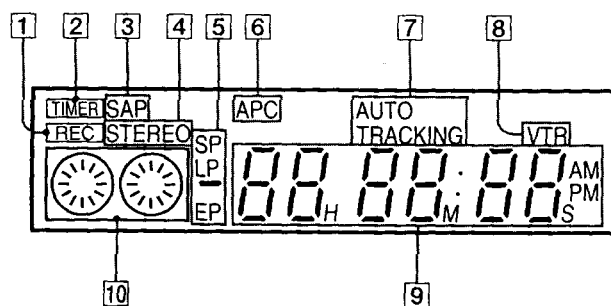
Refer to the pages indicated in parentheses () for details.

Front panel



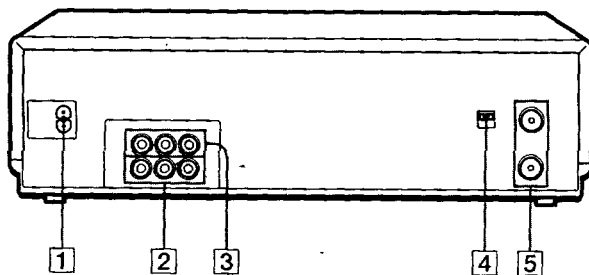
- | | |
|-----------------------------------|---|
| 1 POWER switch/indicator | 7 ■ STOP button (23) |
| 2 Tape compartment | 8 PAUSE button (23) |
| 3 ◀◀ Ⓜ REW button (23, 30) | 9 CHANNEL +/- / TRACKING ▼ / ▲ (STILL ADJUST) buttons (24, 35) |
| 4 ▷ PLAY button (23) | 10 Remote sensor (5) |
| 5 ▶▶ Ⓜ FF button (23, 30) | 11 ▲ EJECT button (23) |
| 6 ● REC button (25) | |

Display window



- | | |
|-----------------------------|--|
| 1 REC (recording) indicator | 7 AUTO TRACKING indicator (35) |
| 2 TIMER indicator (28) | 8 VTR indicator (25) |
| 3 SAP indicator (33) | 9 Time counter/clock/line/channel indicator (23, 25) |
| 4 STEREO indicator (33) | 10 Tape indicator |
| 5 Tape speed indicator (25) | |
| 6 APC indicator (35) | |

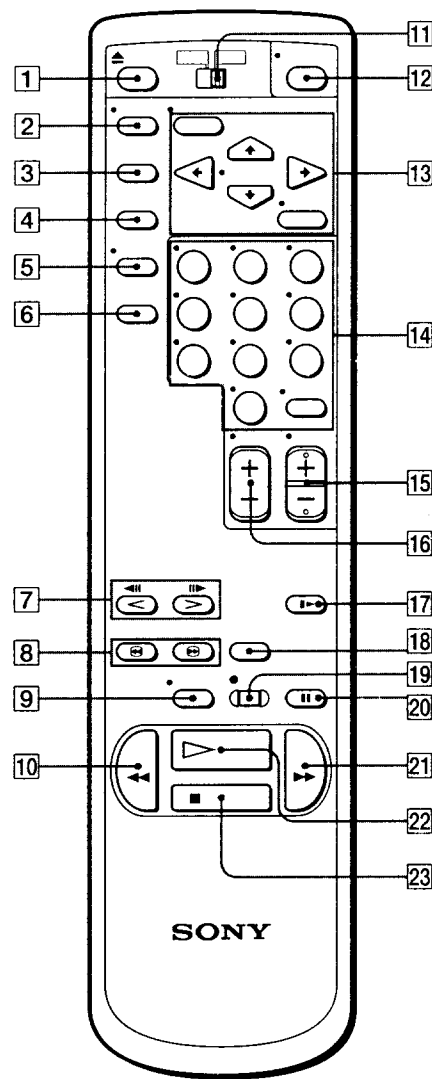
Rear panel



- | | |
|--------------------------------------|---|
| 1 AC IN connector | 4 RF UNIT switch (39) |
| 2 LINE OUT AUDIO L/R/VIDEO jacks (7) | 5 VHF/UHF IN/OUT connectors (8, 10, 12, 14) |
| 3 LINE IN AUDIO L/R/VIDEO jacks (37) | |

continued

Remote commander



- 1 ▲ EJECT button (23)
- 2 TV/VTR button (25)
- 3 TIMER CLEAR button (32)
- 4 QUICK TIMER button (31)
- 5 AUDIO MONITOR button (33)
- 6 COUNTER RESET button (23)
- 7 ◀◀/▶▶ FRAME buttons (30)
- 8 🔍/🔍 SEARCH buttons (23, 30)
- 9 DISPLAY button (25)
- 10 ◀◀ REW button (23, 30)
- 11 [TV]/[VTR] remote control switch (5)
- 12 POWER switch
- 13 Menu operation buttons (36)
MENU button
CURSOR ↑/↓/←/→ buttons
EXECUTE button
- 14 Channel number buttons and
ENTER button (20)
- 15 CH +/- buttons (24)
- 16 VOL +/- buttons
- 17 ▶▶ SLOW button (30)
- 18 TAPE SPEED button (25)
- 19 ● REC button (25)
- 20 || PAUSE button (23)
- 21 ▶▶ FF button (23, 30)
- 22 ▷ PLAY button (23)
- 23 ■ STOP button (23)

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Quick reference to using the VCR

Hookup 1

To play a tape

- 1 Set the TV to channel 3 or 4 (or to video input, if you made A/V connections.)
- 2 Insert a tape and press **PLAY**. If there's no picture on your TV, press the VCR's TV/VTR button until the VTR indicator comes on in the display window.

To record a program

- 1 Press **MENU** and select **TIMER SET/CHECK**.
- 2 Set the date, time, and tape speed.
- 3 Press **EXECUTE**.
- 4 Insert a tape.
- 5 Press **POWER** to turn off the VCR.

To watch TV

- 1 Turn off the VCR, or press the VCR's TV/VTR button until the VTR indicator in the display window goes off.
- 2 Set the TV to the channel you want to watch.

Hookup 2

To play a tape

- 1 Set the TV to channel 3 or 4 (or to video input, if you made A/V connections.)
- 2 Insert a tape and press **PLAY**. If there's no picture on your TV, press the VCR's TV/VTR button until the VTR indicator comes on in the display window.

To record a program

- 1 Turn on the cable box.
- 2 Set the cable box to the channel you want to record.
- 3 Press **MENU** and select **TIMER SET/CHECK**.
- 4 Set the date, time, and tape speed.
- 5 Press **EXECUTE**.
- 6 Insert a tape.
- 7 Press **POWER** to turn off the VCR.
Leave the cable box on.

To watch TV

- 1 Turn off your VCR, or press the VCR's TV/VTR button until the VTR indicator in the display window goes off.
- 2 Turn on your cable box.
- 3 Set the TV to the cable box output channel (usually 2, 3, or 4).
- 4 Set the cable box to the channel you want to watch.

Hookup 3

To play a tape

- 1 If you made A/V connections, set the TV to video input. If you didn't use A/V hookup:
 - Turn on the cable box.
 - Set the cable box to channel 3 or 4.
 - Set the TV to the output channel of the cable box (usually 2, 3 or 4).
- 2 Insert a tape and press **PLAY**.

To record a program

- 1 Press **MENU** and select **TIMER SET/CHECK**.
- 2 Set the date, time, and tape speed.
- 3 Press **EXECUTE**.
- 4 Insert a tape.
- 5 Press **POWER** to turn off the VCR.

To watch TV

- 1 Turn off your VCR, or press the VCR's TV/VTR button until the VTR indicator in the display window goes off.
- 2 Select the channel with your cable box (if you have one) or with your TV.

If you have any questions about this product, you may call: **Sony Customer Information Center** 1-800-222-SONY (7669) or write to: **Sony Customer Information Center** Sony Drive, Mail Drop #T1-11, Park Ridge, NJ 07656